



US005367664A

United States Patent [19][11] **Patent Number:** 5,367,664**Magill et al.**[45] **Date of Patent:** Nov. 22, 1994[54] **ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY**[76] Inventors: **James W. Magill**, 104 Lily Ct., Allen, Tex. 75002; **Kathleen M. Adams**, 6823 Winding Rose Trail, Dallas, Tex. 75252; **Fred A. Sammet**, 2801 Rigsbee Dr., Plano, Tex. 75074-4707

[21] Appl. No.: 753,265

[22] Filed: Aug. 30, 1991

[51] Int. Cl.⁵ G06F 1/00

[52] U.S. CL 395/575; 364/226.4

[58] Field of Search 395/575; 364/408, 250, 364/225.8, 226.4

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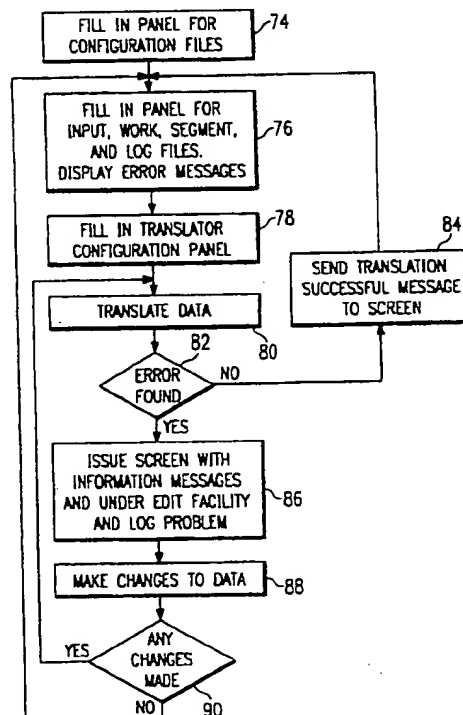
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[57] **ABSTRACT**

A method and system for electronic data interchange (EDI) translation testing displays a plurality of operator-interactive panels for controlling pre-production translation of EDI document files. The EDI Test Facility integrates numerous translator programs to detect translation errors. Once an error is detected, the EDI test facility displays the translation error and permits an operator to interactively correct the segment of the EDI document file containing the error. Once the error is corrected, the EDI Test Facility permits retranslation of the segment. When correctly translated, the segment is added to all previously corrected segments of the EDI document file in a working file. The method and system continue until stopped by the operator or EDI document file translation is complete.

7 Claims, 4 Drawing Sheets

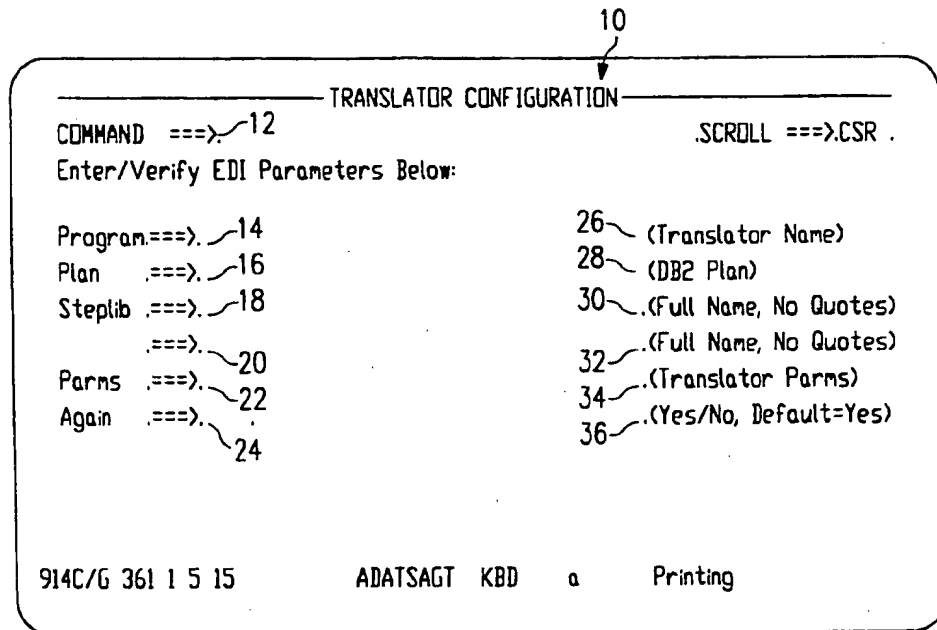


FIG. 1

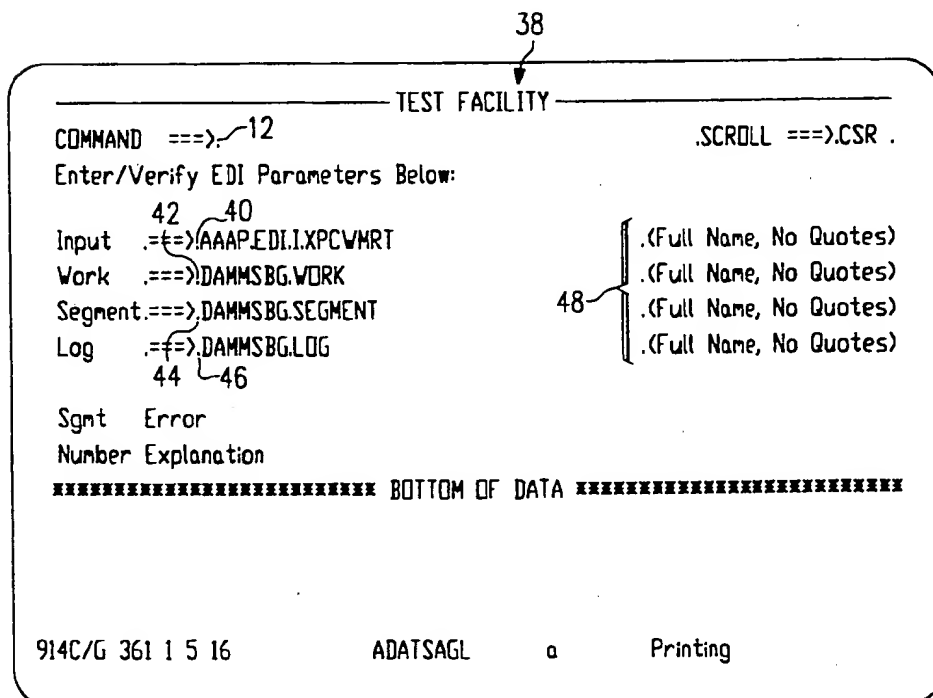


FIG. 2

38

53

TEST FACILITY — ^TRANSLATION INCOMPLETE^

COMMAND ===> 12 ^SCROLL ===> ^PAGE^

Enter/Verify EDI Parameters Below:

44

Input	^===>^DAMMKMM.FB.DATA	^(Full Name, No Quotes)
Work	^===>^DACCJBM.WORK	^(Full Name, No Quotes)
Segment	^===>^DACCJBM.SEGMENT	^(Full Name, No Quotes)
Log	^===>^DACCJBM.LOG	^(Full Name, No Quotes)

50

Sgmt Error 52

Number Explanation

000003^^ERR14 ,Bad sql return code -924..

***** BOTTOM OF DATA *****

.....

914C/G 361 1 5 16 ADATSAIY a Printing 11:06:28

FIG. 3

56 EDIT ——— DACCJBM.SEGMENT ——— 54 COLUMNS 001 072^
 COMMAND ===>^ 58 ^SCROLL ===>^CSR^
 RESULTS OF TRANSLATION: 62 64
 Standard: ^ANSI 60 ^Release: ^00200^Version: ^002001 ^Agency: ^X ^
 70 Last Segment Processed Successfully: ^000002^ 66
 Reason: ^ERR14 ,Bad sql return code -924.. 68
 Correct Identified Errors And Hit PF3 To Retranslate 72

***** TOP OF DATA *****
 000001^ISA#00# #00# #01#009122532 #01#007321904 #91
 000002^GS#PD#153647706#007321904#910806#1937#1189#X#002001^
 000003^ST#850#8114065^
 000004^BEG#00#SA#38114065###910806##91-29A^
 000005^TAX#03-04737-006#####3^
 000006^NI#BY#COLORADO TELECOMMUNICATION DIV#92#38010000^
 000007^PER#BD#GARY THOMSEN#TE#719-531-4248^
 000008^NI#AK#COLORADO TELECOMMUNICATION DIV#92#38010101^
 000009^NI#ST#COLORADO TELECOMMUNICATION DIV#92#38010201^
 000010^NI#BT#COLORADO TELECOMMUNICATION DIV#92#38010001^
 000011^NI#SE#TEXAS INSTRUMENTS INC^
 000012^PO1#1#900#EA#0.29##BP#1826-1439#VP#TLC555CP^
 000013^SCH#900#EA####002#910930^
 000014^TD5#0#92#09#####SB#VD#5^

914C/G 361 1 5 15 ADATSAIY a Printing 11:05:56

FIG. 4

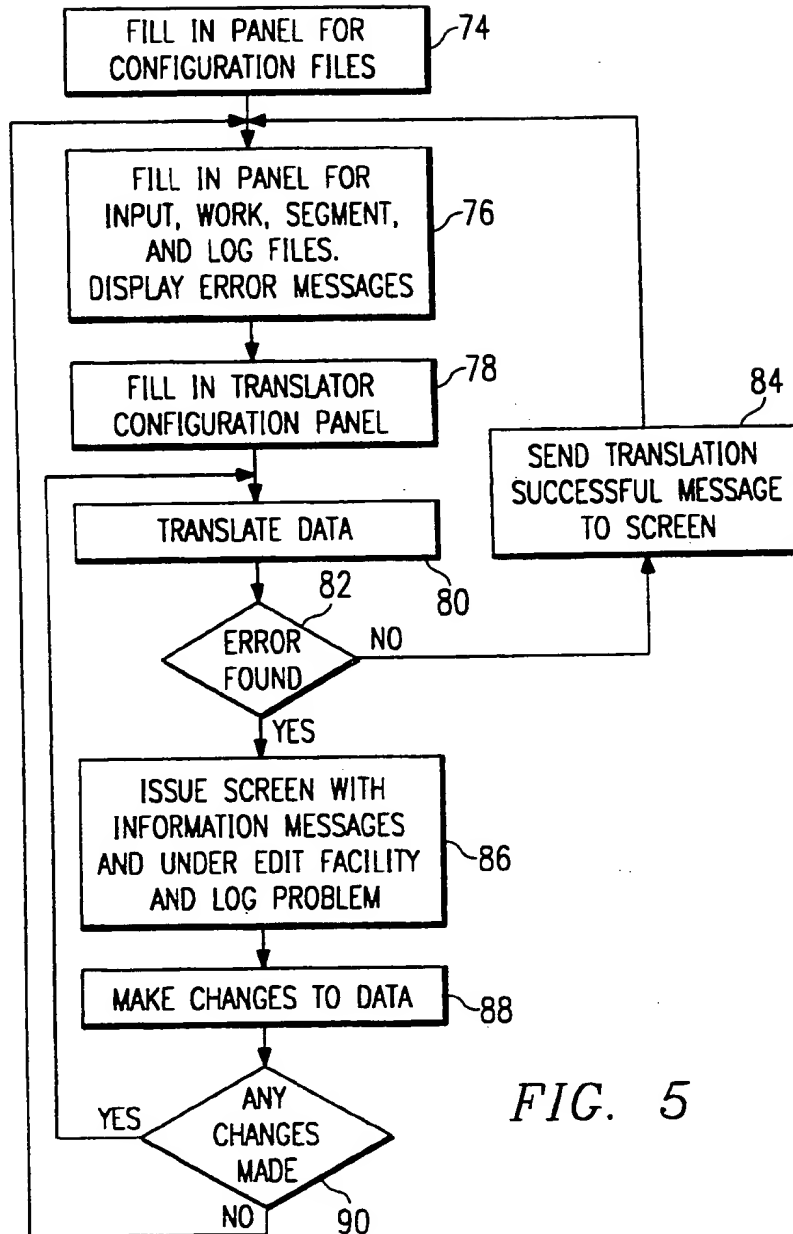


FIG. 5

ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY

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TECHNICAL FIELD OF THE INVENTION

The present invention relates to the methods and systems for testing the transmission of data and more particularly, to a method for testing the transmission of electronic data interchange (EDI) documents files.

BACKGROUND OF THE INVENTION

In recent years many companies, in trading with other companies, for the transmission and receipt or interchange of business information have come to use computerized systems known as electronic data interchange or EDI systems. EDI systems enjoy the particular advantage of having an established set of standards applicable to various types of business documents. For example, in an EDI system, an invoice has a defined format and, as a result, may be rapidly transmitted between trading partners as a compact data file from the sending trading partner's computer to the receiving trading partner's computer. To create the compact data files, an EDI operator must first translate the EDI documents. The EDI document files are compact data files that the receiving trading partner receives. These compact data files are translated back into documents by the receiving trading partner.

Applications for EDI methods and systems include business activities such as purchasing, accounts payable and accounts receivable functions, banking transactions, electronic funds transfer and other document transfers. Other EDI system applications include order filling and processing between trading partners. Not only is this helpful in buying and selling goods, but also trading partners that are transportation companies may use this information to maximize the efficiency of the transportation services they provide. By using EDI systems, a trucking company, for example, may easily keep track of the origin and destination of all of its shipments throughout its service region.

The format standards for EDI documents are generally loosely written so that they can satisfy a wide variety of user needs. Thus, for example, while an EDI invoice format may have well-defined data fields, several aspects of the EDI invoice are variable. As a result, trading partners who agree to use an EDI system may agree to the format of communication between them prior to conducting a business transaction, and thereafter communication between the trading partners has the potential to occur on an almost immediate basis.

Although EDI systems represent a significant improvement in business communications between trading partners, known EDI systems stand in need of improvement in document translation efficiency. A particular problem in the translation of EDI documents is the need to assure that the documents, as they are generated from various points within a trading partner, satisfy the EDI document format EDI requirements. This is particularly important in cases where failure to satisfy applica-

ble EDI document format requirements causes the translation to be either significantly incorrect or fully prohibited. It is, therefore, important that the sending trading partner ascertain that all documents satisfy the information and format requirements of the receiving trading partner before the trading partner sends them.

Known methods of testing EDI document translations require that when a receiving trading partner encounters a transmission error, the sending partner must identify and correct the error and, then, resend a corrected test EDI document file. This process often requires numerous iterations and creates time lapses which strain productivity. Correcting translation errors using a conventional EDI editing system has not proven practical, because any adjustment in the data link of EDI transmission requires that every character following the modification be adjusted. This results in a significant amount of tedious effort between both trading partners. This type of batch processing by the recipient is further limited, because only upon the detection of an error by the recipient can action be taken to correct the problem. Once this problem is corrected, it is necessary to completely rerun the file which may be halted again as a result of yet another error later in the EDI document file translation.

As a result, in order for EDI document transmissions to reach their full potential efficiency and speed there is a need for as a method and system for rapidly increasing the data translation rate between trading partners, it is necessary to have a rapid EDI translation test facility that does not strain the productivity of the receiving trading partner.

There is a need for a method and system that eliminates the batch processing necessary to identify errors in EDI translations.

There is yet the need for a method and system that permits EDI system operators to identify and correct EDI transmission errors without the need to begin again the EDI document file translation process.

SUMMARY OF THE INVENTION

The present invention, accordingly, provides an electronic data interchange testing method and system that overcomes the problems and satisfies the needs previously considered.

According to one aspect of the invention, there is provided a method for pre-production translation testing of EDI document files that comprises the steps of generating a plurality of control displays for controlling the pre-production translation of the EDI document file. Next, translation of the file takes place until a translation error arises. The method of the present invention is to display the translation error on one of the control displays so that the error may be corrected using an input to the control display. The next step is to correct the displayed translation error as indicated by the control display. This process of translating the file until a translation error arises, displaying the translation error for correction, and correcting the translation error continues until the EDI file is fully translated.

According to another aspect of the invention, there is provided within one of the control displays a plurality of initial queries for inputting initialization data pertaining to the EDI document file. The queries relate to the particular translation configuration for translating the data into a particular application program that has the ability to use the EDI document file. Moreover, a particularly attractive aspect of the invention is its ability

to produce textual segment files for containing in textual form predetermined segments of the EDI file and permitting an operator to edit the textual segment file in response to the indicated translation error. Once all errors have been noted and a translation of the relevant section is complete, the segment is stored in a working file. The working file contains all of the previously corrected segments. Through this segmented approach, the working file becomes a corrected copy of the original EDI document file. Hence, upon the complete translation of the original EDI document file, the operator has the original EDI document file and a working EDI document file that was created by the segmentation process.

A technical advantage of the present invention is that it permits EDI systems to realize their intended benefits by eliminating redundant data flows that occur in known systems when EDI document files have translation errors. The EDI test facility of the present invention provides the receiving trading partner the ability to perform pre-production translation testing of EDI document files just prior to their translation. As a result, the EDI document file is fully translated and any errors incurred during this process are logged and can be made available to the sending trading partner as advised corrections; thus minimizing unproductive time lapses and iterative communication cycles between trading partners.

Another advantage of the present invention is that it fully avoids the batch processing that was heretofore necessary in the detecting EDI transmission file errors. Using the method and system of the present invention, a trading partner may employ the EDI test facility to correct interactively EDI document file transmission errors. This allows the trading partner to perform a single EDI document file translation and therefrom produce an error-free translated EDI document file. Because only one translation operation is necessary to produce the error-free EDI document file, the present invention eliminates much of the tedious work and productivity strain presently existing in EDI document file translation.

Yet another advantage of the present invention is that it permits the integration of numerous EDI application programs for error correction and translation. The integration that the present invention provides is functionally transparent to the operator and permits EDI document file translation with any type of translator. The solution that the preferred embodiment provides permits changing the test process from one in which a number of inadequate or unrelated tools are used for EDI translation to a process where an integrated and easy to use tool kit exists to aid the EDI translation operator. As a result, the interactive testing that the preferred embodiment provides significantly reduces transmission testing cycle time. This reduces software development costs and improves overall productivity in EDI document file applications among trading partners.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention and its modes of use and advantages are best understood by reference to the following description of illustrative embodiments when read in conjunction with the accompanying drawings, wherein:

FIG. 1 through 4 are various translation screens usable in a association with the preferred embodiment;

FIG. 5 is a flow chart illustrating the operation of the EDI test facility of the preferred embodiment; and

APPENDIX A provides a listing of the software code that the preferred embodiment of the present invention implements for EDI document file translation testing.

DETAILED DESCRIPTION OF THE INVENTION

The preferred embodiment of the present invention is best understood by referring to the FIGURES wherein like numerals are used for like and corresponding parts of the various drawings.

The EDI test facility of the preferred embodiment integrates within the EDI system environment an operator interactive translation test facility that is accessible through a computer time share option link. In this environment, the EDI test facility of the preferred embodiment has numerous test configuration options. The EDI test facility of the preferred embodiment integrates its operation with the principal communication path among EDI partners for EDI transmissions known as the EDI system gateway. This permits an EDI system operator to locate and select an EDI transmission file for immediate translation testing. Once translation testing has commenced, error situations are brought to the operator's attention along with recommendations for correcting the error. The operator has the option to fix the error and continue testing until the translator detects another translation error. As translation testing continues, the test results are saved into a working file. The working file may be tested to verify a successful translation. Additionally, the preferred embodiment generates a log file to provide the operator with a listing of errors encountered during translation testing.

The EDI test facility may be used on any computer equipped to perform EDI translations and may operate in conjunction with any commercially available EDI translator software package. Examples of translator packages usable with the preferred embodiment include the following: transttlements, interbridge and proprietary translators.

To use the EDI test facility of the preferred embodiment, the operator may enter a time sharing option and receive an EDI document file on which to perform testing. To perform the operation, the EDI test facility of the preferred embodiment presents the operator with a set of operator friendly panels. FIGS. 1-4 illustrate the panels or screens that the operator sees in testing EDI document file for translation errors. In particular, FIG. 1 illustrates the "Translator Configuration Screen" that the preferred embodiment provides to the EDI translation test operator. The Translator Configuration Screen of FIG. 1, as indicated by Translator Configuration label 10, permits the operator to input a Command for EDI translation at point 12 of the screen, the EDI translator program that the operator will use at point 14, the EDI translation plan at point 16, the EDI Steplib, at points 18 and 20, EDI parms at point 22, and at point 24 the ability to respond to a query of whether a translation identified at points 14-22 as being translated again.

The EDI Steplib input defines a library associated with the test facility wherein the translator program resides, and the EDI parms input receives the parameters that the operator desires to pass to the translator program. The operator may provide these Translator Configuration Screen inputs to the EDI test facility of the preferred embodiment using a key board or other computer input device.

Associated with each of the inputs of points 14-24 are respective parameter descriptors. In particular, for the Program input point 14, the preferred embodiment indicates at point 26 that the proper response to the program input 14 is the "Translator Name." For the EDI plan input 16, the "DB2 Plan" parameter descriptor 28 means that for this particular translator, the DB2 plan is used. For Steplib inputs 28 and 20, descriptors 30 and 32 specify that the "Full Name" of the Steplib is necessary and that no quotes may be used. Parns input 22 must be Translated Parns, as descriptor 34 indicates. The appropriate response for the "Again" input 24 is "yes" or "no" with a default to "yes" as indicated by descriptor 36.

Once the operator establishes the translator configuration by appropriately responding to the Translator Configuration Screen of FIG. 1, the operator indicates the completion of this step by hitting the enter key. Test Facility Screen of FIG. 2 appears. Immediately thereafter, identifies Test Facility label 38 the Test Facility Screen. With this screen, the operator may input a command at point 12 and set up particular files necessary to perform the EDI document file transmission testing. For example, in the preferred embodiment, the operator provides to the EDI Test Facility the input file at point 40. In this example, the input file has the name, "AAA.EDI.IEXPCWMRT." The operator defines a work file at point 42 (e.g., ".DAMMSBG.WORK"), a segment file at point 44 (e.g., ".DAMMSBG.SEGMENT"), and a log file (e.g., "DAMMSBG.LOG") at point 46. The Test Facility Screen also assists the operator by describing the types of fields necessary at points 40-46 by the input descriptors 48 which appear as "(Full Name, No Quotes)."

In response to this information and a subsequent command to conduct testing that the operator inputs at point 12, the Test Facility Screen can display the existence of a translation error. FIG. 3 shows the Test Facility screen that appears during translation testing. FIG. 3 shows outputs at Segment Number designator 50 and Error Explanation output 52 to provide indication of errors. In the example, the segment number where an error exists is segment number "000003" having an associated error code of "EER14" and an explanation of "Bad Sql Return Code - 924." This means that at segment number 000003 there was a DB2 problem in the EDI document file translation. With this error identifying information, the operator may insert an "Edit" command into the Command input point 12 of the Test Facility Screen to see the Edit Screen that appears at FIG. 4.

The preferred embodiment of the present invention, upon identifying the translation error, places a segment of the original input file that contains the translation error into a segment file. The segment file, in the example of the preferred embodiment, is identified at point 44 of the Test Facility Screens of FIGS. 2 and 3 and the Edit Screen designator 54. The Edit Screen designator 54 shows that the segment file name is "DACCJBM.SEGMENT." The Edit Label 56 indicates to the operator that the operator is viewing the Edit Screen.

In the Edit Screen, as in the Translator Configuration Screen of FIG. 1 and the Test Facility Screen of FIGS. 2 and 3, command input 12 permits the operator to provide a command input. Other outputs of the Edit Screen include descriptive output of the results of the translation at output point 58, the Standard for translation at point 60 (e.g., "ANSI") the Release descriptor at

output point 62, (e.g., "00200"), the applicable Version at output point 64 (e.g., "002001"), and the particular Agency for output at point 66 (e.g., "X"). Because of the "Last Segment Process Successfully" output point 68, the operator at all times knows the last segment that was successfully processed. At the "Reason" output point 70, the operator receives the same information that previously appeared at Error Explanation output 52 of the Test Facility Screen shown in FIG. 3. This provides as the reason why the translation error occurred. Finally, the operator is prompted to "Correct Identified Errors And Hit PF3 to retranslate the corrected segment (e.g., segment 3 in this example).

The bottom part of the operator screen appearing at FIG. 4 shows the portion of the original EDI document file that the segment file contains. With this small segment, the operator may identify the error that the Test Facility Search lists and correct it. After which, the operator may depress the PF3 key of his keyboard to retranslate the segment and thereby verify that the error has been corrected.

In using the EDI Test Facility of the preferred embodiment, at each segment that the test facility identifies, the Test Facility output of FIG. 3 and the Edit Screen output of FIG. 4 communicate to the operator the existence of an error and the error location, as well as provide to the operator the ability to correct the error interactively. Once the error is corrected, the operator retranslates the corrected segment and the EDI Test Facility of the preferred embodiment continues to translate the EDI document file (e.g., DAMMKMM.FB.DATA of FIG. 3) until the translation is complete.

The Translation Incomplete signal 53 of FIG. 3 indicates that the translation of input file DAMMKMM.FB.DATA is not completed because of the error identified by segment number output 50 and error explanation output 52 (i.e., "ERR14, Badsq Return Code - 924 at segment 000003).

FIG. 5 shows a flow chart of the preferred EDI Test Facility embodiment to provide to the operator the screens appearing in FIG. 1-4. First the operator fills in the Transfer Configuration Screen to establish the configuration files of step 74. Next, the operator fills in the test facility panel for input, work, segment, and log files at step 76. Also at step 76, using the Test Facility screens of FIGS. 2 and 3 the EDI Test Facility of the preferred embodiment displays any error messages arising from the EDI translation. Next, the EDI Test Facility of the preferred embodiment at step 78 permits the operator to fill in the translator configuration of FIG. 1. The preferred embodiment then translates the data at step 80 and queries whether an error has been found in the EDI file translation at step 82.

If no error occurs, the preferred embodiment sends a translation successful message to the Test Facility screen at step 84 and then permits the operator to change the input work segment and log files and continue at steps 76 and the Translator Configuration of step 78. On the other hand, if an error is found at step 82, EDI test facility of the preferred embodiment at step 86, issues the information to the Test Facility Screen (see FIG. 3) and provides the operator with the ability to use the Edit Facility of the preferred embodiment. At step 86, the preferred embodiment also logs the problem in the previously designated log file (see FIG. 3).

Under the edit facility, the EDI Test Facility permits the operator to make changes to the data at step 88 and

query whether any changes were made at step 90. If no changes were made, control returns to step 76 where the operator is to fill in the input, work, segment, and log file as well as to display the error message arising from the failed translation. On the other hand, if changes are made then the program control returns to step 80 to translate data and determine whether any further error exists.

Appendix A provides a complete listing of the source code for the EDI Test Facility of the preferred embodiment.

Although the present invention and its advantages have been described in detail, it should be understood that various changes, substitutions and alterations can be made herein without departing from the spirit and scope the invention as defined in the appended claims.

APPENDIX A

```

TITLE 'EDITSBED - EDI TEST FACILITY'
SPACE 2
*****
----- NOTICE -----
THIS EDI TEST FACILITY SOURCE MODULE
IS TI CLASSIFIED:
TEXAS INSTRUMENTS INTERNAL DATA
PROPERTY OF TEXAS INSTRUMENTS
ONLY
TEXAS INSTRUMENTS, INC.
13500 N. CENTRAL EXPRESSWAY, DALLAS, TEXAS 75265
*****
SPACE 2
REGS
SPACE 2
IHASDWA
SPACE 2
EDIDEQU
SPACE 2
CVT DSECT=YES
TICVT
SPACE 2
IFGACB
SPACE 2
IFGRPL
SPACE 2
IEFZB4D0
SPACE 2
IEFZB4D2
SPACE 2
DCBD DSORG=BS,DEVD=DA
SPACE 2
DCBPARMS DSECT
DCBXDDHM DS CL8
DCBXRfmt DS X
DCBXLREC DS XL2
DCBXLKS DS XL2
DCBXPRI DS XL3
DCBXNEW EQU DCBPARMS,X-DCBPARMS,C'X'
TRANREC DSECT
TRANSTND DS CL8
TRANRLSE DS CL5
TRANVERS DS CL12
TRANAGCY DS CL2
TRANSDLM DS CL1
TRANREAS DS CL71
TRANBIF DS CL10
TRANWELM DS CL8
TRANLAST DS CL6
TRANTAG DS CL20
TRANVAL DS CL40
TRANSTOR EQU TRANTAG,X-TRANTAG,C'Y'
EDITSBED
CSECT
U:ING EDITSBED.R10 NOTE BASE ADDRESSIBILITY
STM R14,R12,12(R13) SAVE ENTRY REGS
LR R10,R15 COPY ENTRY ADDRESS
LA R11,2048(R10) INITIALIZE 2ND BASE REG
LA R11,2048(R11)
U:ING EDITSBED+4096,R11
LA R1,SAVEAREA POINT TO SAVE AREA
ST R13,4(R1) LINK TO CALLERS SAVE AREA
ST R1,8(R13) LINK TO OUR SAVE AREA
LR R13,R1 ESTABLISH SAVE AREA
SPACE 1
*****
SET UP AN ESTAE EXIT
*****
SPACE 1
ESTAE TBABEND, ESTABLISH AN ESTAE
PARAM=(R10),
XCIL=YES
SPACE 1
*****
INITIALIZE
*****

```

SPACE 1			00770000
01 FLAG1,INIT	SET INITIALIZING		00780000
USING IHADCB,R12			00790000
SPACE 1			00800000
LOAD EP=ISPLINK	LOAD LINK PROGRAM		00810000
SPACE 1			00820000
ST R0,ISPLADDR	SAVE ADDRESS		00830000
SPACE 1			00840000
			00850000
			00860000
DEFINE PROCESSING OPTIONS FOR DIALOGUE SERVICE			00870000
			00880000
			00890000
SPACE 1			00900000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		00910000
CALL (15),(CONTROL,ERRORS,RETURN),VL			00920000
SPACE 1			00930000
			00940000
DEFINE MISC. VARIABLE NAMES TO ISPF			00950000
			00960000
SPACE 1			00970000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		00980000
CALL (15),(VDEFINE,ZUSERLIT,ZUSER,CHAR,LENGTH8),VL			00990000
SPACE 1			01000000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01010000
CALL (15),(VDEFINE,DSNLIT,DSN,CHAR,LENGTH44),VL			01020000
SPACE 1			01030000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01040000
CALL (15),(VDEFINE,DSNLIT,DSNW,CHAR,LENGTH44),VL			01050000
SPACE 1			01060000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01070000
CALL (15),(VDEFINE,DSNALIT,DSNAT,CHAR,LENGTH44),VL			01080000
SPACE 1			01090000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01100000
CALL (15),(VDEFINE,DSNALIT,DSNAP,CHAR,LENGTH44),VL			01110000
SPACE 1			01120000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01130000
CALL (15),(VDEFINE,DSNCLIT,DSNCT,CHAR,LENGTH44),VL			01140000
SPACE 1			01150000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01160000
CALL (15),(VDEFINE,DSNCLIT,DSNCP,CHAR,LENGTH44),VL			01170000
SPACE 1			01180000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01190000
CALL (15),(VDEFINE,DSNLIT,DSNIT,CHAR,LENGTH44),VL			01200000
SPACE 1			01210000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01220000
CALL (15),(VDEFINE,DSNLIT,DSNIP,CHAR,LENGTH44),VL			01230000
SPACE 1			01240000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01250000
CALL (15),(VDEFINE,DSNXLIT,DSNXP,CHAR,LENGTH44),VL			01260000
SPACE 1			01270000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01280000
CALL (15),(VDEFINE,DSNXLIT,DSNXP,CHAR,LENGTH44),VL			01290000
SPACE 1			01300000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01310000
CALL (15),(VDEFINE,DSNOLIT,DSNOT,CHAR,LENGTH44),VL			01320000
SPACE 1			01330000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01340000
CALL (15),(VDEFINE,DSNOLIT,DSNOP,CHAR,LENGTH44),VL			01350000
SPACE 1			01360000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01370000
CALL (15),(VDEFINE,DSNOLIT,DSNS,CHAR,LENGTH44),VL			01380000
SPACE 1			01390000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01400000
CALL (15),(VDEFINE,DSNLLIT,DSNL,CHAR,LENGTH44),VL			01410000
SPACE 1			01420000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01430000
CALL (15),(VDEFINE,STDLIT,STD,CHAR,LENGTH8),VL			01440000
SPACE 1			01450000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01460000
CALL (15),(VDEFINE,RLSLIT,RLS,CHAR,LENGTH5),VL			01470000
SPACE 1			01480000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01490000
CALL (15),(VDEFINE,VERSLIT,VERS,CHAR,LENGTH12),VL			01500000
SPACE 1			01510000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01520000
CALL (15),(VDEFINE,AGCYLIT,AGCY,CHAR,LENGTH2),VL			01530000
SPACE 1			01540000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01550000
CALL (15),(VDEFINE,REALIT,REAS,CHAR,LENGTH71),VL			01560000
SPACE 1			01570000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01580000
CALL (15),(VDEFINE,HUMBLIT,HUMB,CHAR,LENGTH6),VL			01590000
SPACE 1			01600000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01610000
CALL (15),(VDEFINE,LASTLIT,LASTSEG,CHAR,LENGTH6),VL			01620000
SPACE 1			01630000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01640000
CALL (15),(VDEFINE,RTC,RTNCODE,HEX,LENGTH4),VL			01650000
SPACE 1			01660000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		01670000
CALL (15),(VDEFINE,REEZ,REEZCODE,HEX,LENGTH2),VL			01670000

SPACE 1		01680000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	01690000
CALL (15),(VDEFINE,DD,DDERR,CHAR,LENGTH8),VL		01700000
SPACE 1		01710000
-----		01720000
* CREATE TABLE NEEDED FOR FIRST PANEL		* 01730000
-----		* 01740000
SPACE 1		01750000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	01760000
CALL (15),(TBCREATE,VARIABLE,,VARLIST,NOWRITE),VL		01770000
SPACE 1		01780000
LTR R15,R15	ERROR?	01790000
BNZ ERROR01	YES-	01800000
SPACE 1		01810000
-----		* 01820000
* RETRIEVE TSO USERID		* 01830000
-----		* 01840000
SPACE 1		01850000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	01860000
CALL (15),(VGET,USERLIST,SHARED),VL		01870000
SPACE 1		01880000
-----		* 01890000
* ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR		* 01900000
-----		* 01910000
SPACE 1		01920000
MVI DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE		01930000
LA R2,DSLISTS	POINT TO DATASET LIST	01940000
USING DCBPARMS,R2	GET ADDRESSABILITY	01950000
DSLISTSX DS OH		01960000
LA R1,DSALLOCS	POINT TO TEXT UNIT LIST	01970000
ST R1,DYNRB+S99TXTPP-S99RB	STORE ADDRESS IN REQUEST BLK	01980000
CLI 0(R2),C' '	END OF LIST?	01990000
BE ALLOCOLD	YES-	02000000
MVC TXDD+S99TUPAR-S99TUNIT(3),DCBXDDNM SET DDNAME		02010000
MVC TXDSDN+S99TUPAR-S99TUNIT(44),=CL44' BLANK OUT DSN		02020000
MVC TXDSDN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID		02030000
LA R15,TXDSDN+S99TUPAR-S99TUNIT POINT TO WORK AREA		02040000
LA R14,44	SET COUNT	02050000
FINDBLNX DS OH		02060000
CLI 0(R15),C' '	FIND FIRST BLANK	02070000
BE FOUNDBLX	FOUND IT-	02080000
LA R15,1(R15)	POINT TO NEXT BYTE	02090000
BCT R14,FINDBLNX		02100000
DS OH		02110000
MVC 0(4,R15),=CL4'.TF.' SET MIDDLE NODE		02120000
LA R15,4(R15)	INCREMENT POINTER	02130000
MVC 0(8,R15),DCBXDDNM SET REST OF DSN		02140000
BAL R9,DYNA	GO ALLOC FILE	02150000
B CKERRORX	ERROR ON ALLOCATION	02160000
NEXTLISS DS OH		02170000
LA R2,L'DCBXNEW(R2)	POINT TO NEXT ENTRY	02180000
B DSLISTSX	CONTINUE	02190000
CKERRORX DS OH		02200000
CLC =XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?		02210000
BNE ERROR02	NO-	02220000
LA R1,DSALLOCS	POINT TO TEXT UNIT LIST	02230000
ST R1,DYNRB+S99TXTPP-S99RB	STORE ADDRESS IN REQUEST BLK	02240000
MVC TXIRECEM+S99TUPAR-S99TUNIT(L'DCBXRFMT),DCBXRFMT		02250000
MVC TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC		02260000
MVC TXTBLKSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS		02270000
MVC TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM		02280000
BAL R9,DYNA	GO ALLOC FILE	02290000
B ERROR02	ERROR ON ALLOCATION	02300000
B NEXTLISS	CONTINUE	02310000
DROP R2		02320000
SPACE 1		02330000
-----		* 02340000
* ALLOCATE DISP=OLD DATASETS NEEDED BY TRANSLATOR		* 02350000
-----		* 02360000
SPACE 1		02370000
ALLCOLD DS OH		02380000
MVI DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE		02390000
LA R2,DSLISIO	POINT TO DATASET LIST	02400000
USING DCBPARMS,R2	GET ADDRESSABILITY	02410000
DSLISIOX DS OH		02420000
LA R1,DSALLOCS	POINT TO TEXT UNIT LIST	02430000
ST R1,DYNRB+S99TXTPP-S99RB	STORE ADDRESS IN REQUEST BLK	02440000
CLI 0(R2),C' '	END OF LIST?	02450000
BE ALLOCOLD	YES-	02460000
MVC TXDD+S99TUPAR-S99TUNIT(3),DCBXDDNM SET DDNAME		02470000
MVC TXDSDN+S99TUPAR-S99TUNIT(44),=CL44' BLANK OUT DSN		02480000
MVC TXDSDN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID		02490000
LA R15,TXDSDN+S99TUPAR-S99TUNIT POINT TO WORK AREA		02500000
LA R14,44	SET COUNT	02510000
FINDBLNK DS OH		02520000
CLI 0(R15),C' '	FIND FIRST BLANK	02530000
BE FOUNDBLK	FOUND IT-	02540000
LA R15,1(R15)	POINT TO NEXT BYTE	02550000
BCT R14,FINDBLNK		02560000
DS OH		02570000
MVC 0(4,R15),=CL4'.TF.' SET MIDDLE NODE		02580000

	LA	R15,4(R15)	INCREMENT POINTER	02590000
	MVC	0(8,R15),DCBXDDNM	SET REST OF DSN	02600000
	BAL	R9,DYNA	GO ALLOC FILE	02610000
	B	CKERROR	ERROR ON ALLOCATION	02620000
NEXTLISO	DS	0H		02630000
	LA	R2,L'DCBXNEW(R2)	POINT TO NEXT ENTRY	02640000
	B	DSLISIOX	CONTINUE	02650000
CKERROR	DS	0H		02660000
	CLC	=XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?		02670000
	BNE	ERROR02	NO-	02680000
	LA	R1,DSALLOCH	POINT TO TEXT UNIT LIST	02690000
	ST	R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK		02700000
	MVC	TXTRCFM+S99TUPAR-S99TUNIT(L'DCBXRFTM),DCBXRFTM		02710000
	MVC	TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC		02720000
	MVC	TXTBKLSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS		02730000
	MVC	TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM		02740000
	BAL	R9,DYNA	GO ALLOC FILE	02750000
	B	ERROR02	ERROR ON ALLOCATION	02760000
	B	NEXTLISO	CONTINUE	02770000
	DROP	R2		02780000
	SPACE	1		02790000
-----				02800000
* ALLOCATE SYSOUT NEEDED BY TRANSLATOR				* 02810000
-----				* 02820000
ALLOCSO	SPACE	1		02830000
	DS	0H		02840000
	LA	R1,SOALLOCH	POINT TO TEXT UNIT LIST	02850000
	ST	R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK		02860000
	MVI	DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE		02870000
	LA	R2,SOLIST	POINT TO SYSOUT LIST	02880000
SOLISTX	DS	0H		02890000
	CLI	0(R2),C'	END OF LIST?	02900000
	BE	GETVARS	YES-	02910000
	MVC	TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME		02920000
	BAL	R9,DYNA	GO ALLOC DATABASE	02930000
	B	ERROR02	ERROR ON ALLOCATION	02940000
	LA	R2,8(R2)	POINT TO NEXT DDNAME	02950000
	B	SOLISTX	CONTINUE	02960000
	SPACE	1		02970000
-----				02980000
* RETRIEVE PANEL VARIABLES FOR DISPLAY				* 02990000
-----				* 03000000
GETVARS	SPACE	1		03010000
	DS	0H		03020000
	L	R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	03030000
	CALL	(15),(VGET,SAVLST,PROFILE),VL		03040000
	SPACE	1		03050000
-----				03060000
* DISPLAY CONFIGURATION PANEL TO GET FILE NAMES				* 03070000
-----				* 03080000
CONFIG	SPACE	1		03090000
	DS	0H		03100000
	LA	R1,DSUNCONC	POINT TO TEXT UNIT LIST	03110000
	ST	R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK		03120000
	MVI	DYNRB+S99VERB-S99RB,S99VRBDC SET TO UNALLOCATE		03130000
	LA	R2,DSLST	POINT TO DS LIST	03140000
UNCONC	DS	0H		03150000
	CLC	=C'VSAM',0(R2)	END OF LIST?	03160000
	BE	UNALCONF	YES-	03170000
	MVC	TXTDDU+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME		03180000
	BAL	R9,DYNA	GO UNCONCAT FILES	03190000
	B	*+4	ERROR ON UNCONCAT	03200000
	LA	R2,104(R2)	POINT TO NEXT DDNAME	03210000
	B	UNCONC	CONTINUE	03220000
UNALCONF	DS	0H		03230000
	LA	R1,DSUNALOC	POINT TO TEXT UNIT LIST	03240000
	ST	R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK		03250000
	MVI	DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE		03260000
	LA	R2,DSLST	POINT TO DS LIST	03270000
UNALDSX	DS	0H		03280000
	CLI	0(R2),C'	END OF LIST?	03290000
	BE	DISPCONF	YES-	03300000
	MVC	TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME		03310000
	BAL	R9,DYNA	GO UNALLOCATE FILE	03320000
	B	*+4	ERROR ON UNALLOCATION	03330000
	LA	R2,52(R2)	POINT TO NEXT DDNAME	03340000
	B	UNALDSX	CONTINUE	03350000
	SPACE	1		03360000
DISPCONF	DS	0H		03370000
	L	R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	03380000
	CALL	(15),(DISPLAY,PANEL3),VL DISPLAY		03390000
	SPACE	1		03400000
	CH	R15,=H'8'	END/RETURN ENTERED?	03410000
	BE	ENDSESS	YES-	03420000
	NI	FLAG1,FF-INIT	RESET INIT FLAG	03430000
	SPACE	1		03440000
-----				03450000
* ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR				* 03460000
-----				* 03470000

	SPACE 1		03480000
	LA R1,DSALLOCS	POINT TO TEXT UNIT LIST	03490000
	ST R1,DYNRB+S99TXTPP-S99RB	STORE ADDRESS IN REQUEST BLK	03500000
	MVI DYNRB+S99VERB-S99RB,	S99VRBAL SET TO ALLOCATE	03510000
	LA R2,DSLSTX	POINT TO DATASET LIST	03520000
DSLSTX	DS OH		03530000
	CLI 0(R2),C'	END OF LIST?	03540000
	BE CONCLIST	YES-	03550000
	MVC TXIDD+S99TUPAR-S99TUNIT(8),0(R2)	COPY DDNAME	03560000
	MVC TXIDGN+S99TUPAR-S99TUNIT(44),8(R2)	COPY DS NAME	03570000
	BAL R9,DYNA	GO ALLOC FILE	03580000
	B (4R0R02	ERROR ON ALLOCATION	03590000
	LA R2,52(R2)	POINT TO NEXT DATASET NAME	03600000
	B DSLSTX	CONTINUE	03610000
CONCLIST	DS OH		03620000
	LA R1,DSCONCLS	POINT TO TEXT UNIT LIST	03630000
	ST R1,DYNRB+S99TXTPP-S99RB	STORE ADDRESS IN REQUEST BLK	03640000
	MVI DYNRB+S99VERB-S99RB,	S99VRBCC SET TO ALLOCATE	03650000
	LA R2,DSLSTX	POINT TO DATASET LIST	03660000
CONCNEXT	DS OH		03670000
	CLC =C'VSAM',0(R2)	END OF LIST?	03680000
	BE DISPPRIM	YES-	03690000
	MVC TXTCNOC+S99TUPAR-S99TUNIT(8),0(R2)	COPY DDNAME	03700000
	LA R2,52(R2)	POINT TO NEXT DDNAME	03710000
	MVC TXTCNOCX,0(R2)	COPY SECOND DDNAME	03720000
	BAL R9,DYNA	GO ALLOC FILE	03730000
	B ERROR02	ERROR ON ALLOCATION	03740000
	LA R2,52(R2)	POINT TO NEXT DDNAME	03750000
	B CONCNEXT	CONTINUE	03760000
	SPACE 1		03770000
	DISP	PRIMARY PANEL	03780000
	DISP	PRIMARY PANEL	03790000
	DISP	PRIMARY PANEL	03800000
	SPACE 1		03810000
DISPPRIM	DS OH		03820000
	LA R12,LOGDCB	POINT TO LOG DCB	03830000
	TM DCB0FLGS,DCB0FOPN	IS IT OPEN?	03840000
	BNO LOGCLOSE	NO-	03850000
	SPACE 1		03860000
	CLOSE ((R12))	CLOSE IT	03870000
	SPACE 1		03880000
	LB R1,R12	COPY DCB ADDRESS	03890000
	SPACE 1		03900000
	FREEPOOL (1)	FREE QSAM BUFFERS	03910000
LOGCLOSE	DS OH		03920000
	LA R1,DSUNALOC	POINT TO TEXT UNIT LIST	03930000
	ST R1,DYNRB+S99TXTPP-S99RB	STORE ADDRESS IN REQUEST BLK	03940000
	MVI DYNRB+S99VERB-S99RB,	S99VRBUN SET TO UNALLOCATE	03950000
	MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE'		03960000
	BAL R9,DYNA	GO UNALLOCC	03970000
	B *+4	ERROR ON UNALLOCATION	03980000
	MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT'		03990000
	BAL R9,DYNA	GO UNALLOCC	04000000
	B *+4	ERROR ON UNALLOCATION	04010000
	MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE'		04020000
	BAL R9,DYNA	GO UNALLOCC	04030000
	B *+4	ERROR ON UNALLOCATION	04040000
	SPACE 1		04050000
	MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG'		04060000
	BAL R9,DYNA	GO UNALLOCC	04070000
	B *+4	ERROR ON UNALLOCATION	04080000
	SPACE 1		04090000
	L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	04100000
	CALL (15),(TBTOP,VARTABLE),VL	DISPLAY	04110000
	SPACE 1		04120000
	L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	04130000
	CALL (15),(TBDISPL,VARTABLE,PRIMARY),VL	DISPLAY	04140000
	SPACE 1		04150000
	CH R15,=H'8'	END-RETURN ENTERED?	04160000
	BE CONFIG	YES-	04170000
	SPACE 2		04180000
	DELETE AND RECREATE TABLE OF ERRORS		04190000
	DELETE AND RECREATE TABLE OF ERRORS		04200000
	SPACE 2		04210000
	L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	04220000
	CALL (15),(TBCLOSE,VARTABLE),VL		04230000
	SPACE 1		04240000
	L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	04250000
	CALL (15),(TBCREATE,VARTABLE,,VARLIST,NOWRITE),VL		04260000
	SPACE 1		04270000
	LTR R15,R15	ERROR?	04280000
	BNZ ERROR01	YES-	04290000
	SPACE 2		04300000
	ALLOCATE INPUT FILE SPECIFIED BY USER		04310000
	ALLOCATE INPUT FILE SPECIFIED BY USER		04320000
	ALLOCATE INPUT FILE SPECIFIED BY USER		04330000
	SPACE 2		04340000
	LA R1,DSALLOCS	POINT TO TEXT UNIT LIST	04350000
	ST R1,DYNRB+S99TXTPP-S99RB	STORE ADDRESS IN REQUEST BLK	04360000
	MVI DYNRB+S99VERB-S99RB,	S99VRBAL SET TO ALLOCATE	04370000
			04380000

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MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE' SET DDNAME 04390000
MVC TXTDSN+S99TUPAR-S99TUNIT(44),DSN COPY DS NAME 04400000
BAL R9,DYNA GO ALLOC FILE 04410000
B ERROR02 ERROR ON ALLOCATION 04420000
SPACE 1 04430000
LA R1,DSALLOCO POINT TO TEXT UNIT LIST 04440000
ST R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 04450000
MVI DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE 04460000
MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG' SET DDNAME 04470000
MVC TXTDSN+S99TUPAR-S99TUNIT(44),DSN COPY DS NAME 04480000
BAL R9,DYNA GO ALLOC FILE 04490000
B ERROR02 ERROR ON ALLOCATION 04500000
LA R1,DSALLOCO POINT TO TEXT UNIT LIST 04510000
ST R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 04520000
MVI DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE 04530000
MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT' SET DDNAME 04540000
MVC TXTDSN+S99TUPAR-S99TUNIT(44),DSN COPY DS NAME 04550000
BAL R9,DYNA GO ALLOC FILE 04560000
B ERROR02 ERROR ON ALLOCATION 04570000
LA R12,INPDCB POINT TO DCB 04580000
MVC DDERR,DCBDDNAM SET DDNAME IN ERROR MSG 04590000
SPACE 1 04600000
OPEN ((R12),(INPUT)) OPEN FILE 04610000
SPACE 1 04620000
TM DCBOFLGS,DCBOFOPN WAS OPEN SUCCESSFUL? 04630000
BNO ERROR06 NO- 04640000
TM DCBRECFCM,DCBRECFC+DCBRECVR FB RECORDS? 04650000
BNO ERROR10 ERROR 04660000
LH R0,DCBLRECL GET LRECL 04670000
CH R0,=H'80' LRECL = 80? 04680000
BNE ERROR10 NO ERROR 04690000
SPACE 1 04700000
CLOSE ((R12)) CLOSE FILE 04710000
SPACE 1 04720000
MVI DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE 04730000
MVC TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE' SET DDNAME 04740000
MVC TXTDSN+S99TUPAR-S99TUNIT(44),DSN COPY DS NAME 04750000
BAL R9,DYNA GO ALLOC FILE 04760000
B ERROR02 ERROR ON ALLOCATION 04770000
LA R12,OUTDCB POINT TO DCB 04780000
MVC DDERR,DCBDDNAM SET DDNAME IN ERROR MSG 04790000
SPACE 1 04800000
OPEN ((R12),(INPUT)) OPEN FILE 04810000
SPACE 1 04820000
TM DCBOFLGS,DCBOFOPN WAS OPEN SUCCESSFUL? 04830000
BNO ERROR06 NO- 04840000
TM DCBRECFCM,DCBRECFC+DCBRECVR VB RECORDS? 04850000
BNO ERROR11 NO- ERROR 04860000
LH R0,DCBLRECL GET LRECL 04870000
CH R0,=H'259' LRECL = 259? 04880000
BNE ERROR11 NO ERROR 04890000
SPACE 1 04900000
CLOSE ((R12)) CLOSE FILE 04910000
SPACE 1 04920000
MVC IDCBL,=CL8'USERFILE' SET INPUT DDNAME FOR REBLOCK 04930000
MVC ODCBL,=CL8'INPUT' SET OUTPUT DDNAME FOR REBLOCK 04940000
LA R12,LOGDCB POINT TO STORE DCB 04950000
MVC DDERR,DCBDDNAM SET DDNAME IN ERROR MSG 04960000
SPACE 1 04970000
OPEN ((R12),(OUTPUT)) OPEN FILE 04980000
SPACE 1 04990000
TM DCBOFLGS,DCBOFOPN WAS OPEN SUCCESSFUL? 05000000
BNO ERROR06 NO- 05010000
TRANLOOP DS OH 05020000
SPACE 1 05030000
CALL REBLK,(DCBNAMES),VL GO REBLOCK FILE FOR XLATOR 05040000
SPACE 1 05050000
LTR R15,R15 REBLOCK OK? 05060000
BNZ ERROR04 NO- 05070000
SPACE 1 05080000
L R15,ISPLADDR LOAD ADDRESS OF ISPLINK ROUTINE 05090000
SPACE 1 05100000
CALL (15),(SELECT,LENGTH11,SELCMD),VL 05110000
SPACE 1 05120000
LTR R15,R15 BYPASS CHECK 05130000
BNZ BYPASST YES- 05140000
SPACE 1 05150000
*-----* 05160000
* GET INFORMATION ABOUT PROBLEM * 05170000
*-----* 05180000
CHECKERR SPACE 1 05190000
DS OH 05200000
LA R12,ERRDCB POINT TO ERROR DCB 05210000
MVC DDERR,DCBDDNAM SET DDNAME IN ERROR MSG 05220000
LA R0,BYPASST SET EOB ADDRESS 05230000
STCM R0,B'0111',DCBEODA IN DCB 05240000
SPACE 1 05250000
OPEN ((R12),(INPUT)) OPEN FILE 05260000
SPACE 1 05270000
TM DCBOFLGS,DCBOFOPN WAS OPEN SUCCESSFUL? 05280000
BNO ERROR06 NO- 05290000
L R0,BUFFER GET BUFFER ADDRESS 05300000

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SPACE 1			05310000
GET ERRDCB	RETRIEVE ERROR RECORD		05320000
SPACE 1			05330000
CLOSE ((R12))	CLOSE FILE		05340000
SPACE 1			05350000
LR R1,R12	COPY DCB ADDRESS		05360000
SPACE 1			05370000
FREEPOOL (1)	FREE QSAM BUFFERS		05380000
SPACE 1			05390000
L R6,BUFFER	GET ERROR BUFFER ADDRESS		05400000
AH R6,=H'4'	POINT PAST RDW		05410000
USING TRANREC,R6	GET ADDRESSABILITY		05420000
MVC STD,TRANSTND	SET STANDARD		05430000
MVC RLS,TRANRLSE	SET RELEASE		05440000
MVC VERS,TRANVERS	SET VERSION		05450000
MVC AGCY,TRANAGCY	SET AGENCY		05460000
MVC REAS,TRANREAS	SET REASON		05470000
MVC LASTSEG,TRANLAST	SET LAST SEGMENT PROCESSED		05480000
PACK DBLWORD,TRANLAST	PACK LAST SEGMENT FIELD		05490000
AP DBLWORD,=P'1'	ADD ONE TO GET PROBLEM SGM		05500000
UNPK NUMB,DBLWORD	GET IT BACK TO EBCDIC		05510000
QT NUMB+5,X'F0'	SET ZONE		05520000
MVC SEP,TRANSDLM	SET SEGMENT DELIMITER		05530000
SPACE 1			05540000
-----*			05550000
-----*			05560000
UPDATE LOG			05570000
-----*			05580000
SPACE 1			05590000
L R2,BUFFER	GET BUFFER ADDRESS		05600000
MVC 0(80,R2),=CL80'	BLANK OUT BUFFER		05610000
MVC 0(L'REAS,R2),REAS	COPY INTO BUFFER		05620000
SPACE 1			05630000
PUT LOGDCB,(R2)	WRITE RECORD		05640000
SPACE 1			05650000
-----*			05660000
-----*			05670000
ADD REASON TO TABLE			05680000
-----*			05690000
SPACE 1			05700000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		05710000
CALL (15),(TBADD,VARIABLE),VL			05720000
SPACE 1			05730000
LTR R15,R15	ERROR?		05740000
BNZ ERROR07	YES-		05750000
SPACE 1			05760000
-----*			05770000
-----*			05780000
SPACE 1			05790000
LA R12,STOREDCB	POINT TO STORE DCB		05800000
MVC DDERR,DCBDDNAM	SET DDNAME IN ERROR MSG		05810000
SPACE 1			05820000
OPEN ((R12),(OUTPUT))	OPEN FILE		05830000
SPACE 1			05840000
TM DCBDFLG,DCBDFOPN	WAS OPEN SUCCESSFUL?		05850000
BNO ERROR06	NO-		05860000
L R2,BUFFER	GET BUFFER ADDRESS		05870000
MVC 0(80,R2),=CL80'	BLANK OUT BUFFER		05880000
LA R6,TRANSTOR	POINT TO TAG		05890000
USING TRANSTOR,R6	GET ADDRESSABILITY		05900000
STORCONT DS OH			05910000
CLC TRANTAG(L'BEDZERO),BEDZERO	END OF VALUES?		05920000
BE STORQUIT	YES-		05930000
MVC 0(L'TRANSTOR,R2),TRANSTOR	COPY INTO BUFFER		05940000
SPACE 1			05950000
PUT STOREDCB,(R2)	WRITE RECORD		05960000
SPACE 1			05970000
LA R6,L'TRANSTOR(R6)	INCREMENT POINTER		05980000
B STORCONT	CONTINUE		05990000
STORQUIT DS OH			06000000
CLOSE ((R12))	CLOSE IT		06010000
SPACE 1			06020000
LR R1,R12	COPY DCB ADDRESS		06030000
SPACE 1			06040000
FREEPOOL (1)	FREE QSAM BUFFERS		06050000
SPACE 1			06060000
-----*			06070000
-----*			06080000
OPEN INPUT FILE			06090000
SPACE 1			06100000
LA R12,INPDCB	POINT TO INPUT DCB		06110000
MVC DDERR,DCBDDNAM	SET DDNAME IN ERROR MSG		06120000
SPACE 1			06130000
OPEN ((R12),(INPUT))	OPEN FILE		06140000
SPACE 1			06150000
TM DCBDFLG,DCBDFOPN	WAS OPEN SUCCESSFUL?		06160000
BNO ERROR06	NO-		06170000
SPACE 1			06180000
-----*			06190000
-----*			06200000
OPEN TEMPORARY FILE FOR OUTPUT			06200000

SPACE 1			06210000
LA R12,OUTDCB	POINT TO OUTPUT DCB		06220000
MVC DDERR,DCBDDNAM	SET DDNAME IN ERROR MSG		06230000
SPACE 1			06240000
OPEN ((R12),(OUTPUT))	OPEN FILE		06250000
SPACE 1			06260000
TM DCB0FLGS,DCB0FOPH	WAS OPEN SUCCESSFUL?		06270000
BNO ERROR06	NO-		06280000
HI BEDELGL,FF-INEOF-PERRERR RESET FLAGS			06290000
NEXTSGMT DS OH			06300000
BAL R9,FINDSGMT	YES- GO FIND SEGMENT		06310000
B ERROR08	ERROR-		06320000
B CLOSEOUT	EOF-		06330000
L R0,BUFFRDW	POINT TO SEGMENT		06340000
SPACE 1			06350000
PUT OUTDCB	WRITE IT		06360000
SPACE 1			06370000
B NEXTSGMT	NORMAL		06380000
DS OH			06390000
LA R12,OUTDCB	POINT TO OUTPUT DCB		06400000
SPACE 1			06410000
CLOSE ((R12))	CLOSE IT		06420000
SPACE 1			06430000
LR R1,R12	COPY DCB ADDRESS		06440000
SPACE 1			06450000
FREEPOOL (1)	FREE QSAM BUFFERS		06460000
SPACE 1			06470000
-----			06480000
* BRING UP EDIT FACILITY FOR INPUT FILE			06490000
-----			06500000
SPACE 1			06510000
DS OH			06520000
MVC TDSN,DSNS	SET SEGMENT FILE NAME?		06530000
LA R1,TDSN	POINT TO DSN		06540000
B *+8			06550000
IDSNLOOP DS OH			06560000
LA R1,(R1)	POINT TO NEXT BYTE		06570000
CLI 0(R1),C'	IS THIS A BLANK DELIMETER		06580000
BNE IDSNLOOP	NO- CONTINUE		06590000
MVI 0(R1),C'***	MOVE IN ASTERISK		06600000
SKIPTDLM DS OH			06610000
L R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE		06620000
CALL (R15),(EDIT,TEMPDSN,,,PANEL2),VL			06630000
SPACE 1			06640000
CH R15,=H'5'	ABNORMAL RETURN?		06650000
BH ERROR09	YES-		06660000
BE BYPASSX	NORMAL RETURN(NOSAVE)		06670000
MVC IDCBL,=CL8'SGMTFILE'	SET INPUT DDNAME FOR REBLOCK		06680000
B TRANLOOP	GO TRANSLATE AGAIN		06690000
BYPASST DS OH			06700000
SPACE 1			06710000
CLOSE ((R12))	CLOSE FILE		06720000
SPACE 1			06730000
LR R1,R12	COPY DCB ADDRESS		06740000
SPACE 1			06750000
FREEPOOL (1)	FREE QSAM BUFFERS		06760000
SPACE 1			06770000
MVC MSGID,=CL8'EDIL050'	SET MSGID		06780000
BAL R9,SETMSGX	DISPLAY MSG		06790000
B DISPPRIM	DISPLAY RESULTS		06800000
BYPASSX DS OH			06810000
MVC MSGID,=CL8'EDIL063'	SET MSGID		06820000
BAL R9,SETMSGX	DISPLAY MSG		06830000
B DISPPRIM	DISPLAY RESULTS		06840000
SPACE 1			06850000
-----			06860000
* UNALLOCATE ALL FILES USED			06870000
-----			06880000
SPACE 1			06890000
ENDSESS DS OH			06900000
ESTAE 0	CANCEL ESTAE		06910000
SPACE 1			06920000
LA R1,DSUNALOC	POINT TO TEXT UNIT LIST		06930000
ST R1,DYNRB+S99TTPP-S99RB	STORE ADDRESS IN REQUEST BLK		06940000
MVI DYNRB+S99VERB-S99RB,S99VRBUN	SET TO UNALLOCATE		06950000
LA R2,SOLIST	POINT TO SYSOUT LIST		06960000
UNALSYSDS OH			06970000
CLI 0(R2),C'	END OF LIST?		06980000
BE UNALDSO	YES-		06990000
MVC TXTDD+S99TUPAR-S99TUNIT(8),0(R2)	COPY DDNAME		07000000
BAL R9,DYNA	GO UNALLO		07010000
B *+4	ERROR ON UNALLOCATION		07020000
LA R2,8(R2)	POINT TO NEXT DDNAME		07030000
B UNALSYSDS	CONTINUE		07040000
UNALDSO DS OH			07050000
LA R2,DSLSTO	POINT TO DS LIST		07060000
UNALDSXO DS OH			07070000
CLI 0(R2),C'	END OF LIST?		07080000
BE UNALDSS	YES-		07090000
MVC TXTDD+S99TUPAR-S99TUNIT(8),0(R2)	COPY DDNAME		07100000
BAL R9,DYNA	GO UNALLOCATE FILE		07110000

	B	*+4	ERROR ON UNALLOCATION	07120000
	LA	R2,L'DCBXNEW(R2)	POINT TO NEXT DDNAME	07130000
	B	UNALDSX0	CONTINUE	07140000
	SPACE 1			07150000
UNALDSS	DS	0H		07160000
	LA	R2,DSLISTS	POINT TO DS LIST	07170000
UNALDSXS	DS	0H		07180000
	CLI	0(R2),C' '	END OF LIST?	07190000
	BE	CLOSTABL	YES-	07200000
	MVC	TXDD+S99TUPAR-S99TUNIT(8),0(R2)	COPY DDNAME	07210000
	BAL	R9,DYNA	GO UNALLOCATE FILE	07220000
	B	*+4	ERROR ON UNALLOCATION	07230000
	LA	R2,L'DCBXNEW(R2)	POINT TO NEXT DDNAME	07240000
	B	UNALDSXS	CONTINUE	07250000
	SPACE 1			07260000
CLOSTABL	DS	0H		07270000
	L	R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	07280000
	CALL	(15),(TBCLOSE,VARIABLE),VL		07290000
	SPACE 1			07300000
	L	R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	07310000
	CALL	(15),(VPUT,SAVLIST,PROFILE),VL		07320000
	SPACE 1			07330000
				07340000
		RESTORE REGISTERS AND RETURN TO CALLER		07350000
				07360000
	SPACE 1			07370000
RETURNX	DS	0H		07380000
	L	R13,4(R13)	RESTORE CALLERS SAVE AREA	07390000
	L	R14,12(R13)	RETURN ADDRESS	07400000
	LM	R0,R12,20(R13)	REGISTERS	07410000
	BR	R14		07420000
	SPACE 1			07430000
				07440000
		THIS SUBROUTINE WILL UN/ALLOCATE THE FILES NEEDED.		07450000
		RETURN TO THE CALLER WITH A DISPLACEMENT DEPENDING ON		07460000
		THE RETURN CODE IN R15.		07470000
				07480000
		ON ENTRY: R9 => RETURN ADDRESS		07490000
				07500000
		RETURNS : 0(R9) => ERROR RETURN		07510000
		4(R9) => NORMAL RETURN		07520000
				07530000
				07540000
	SPACE 1			07550000
DYNA	DS	0H		07560000
	LA	R1,DYNRBP	SET UP REQUEST BLOCK CHAIN	07570000
	SPACE 1			07580000
	DYNALLO		GO ALLOCATE IT	07590000
	SPACE 1			07600000
	LTR	R15,R15	ALLOCATION SUCCESSFUL?	07610000
	BNZ	0(R9)	NO- TAKE EXIT RETURN	07620000
	B	4(R9)	TAKE NORMAL RETURN	07630000
	SPACE 1			07640000
				07650000
		LOG MESSAGES		07660000
				07670000
	SPACE 1			07680000
LOGIT	DS	0H		07690000
	L	R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	07700000
	CALL	(15),(LOG,MSGID),VL	LOG IT	07710000
	SPACE 1			07720000
	BR	R9	RETURN	07730000
	SPACE 1			07740000
				07750000
		SET MESSAGES		07760000
				07770000
	SPACE 1			07780000
SETMSGX	DS	0H		07790000
	L	R15,ISPLADDR	LOAD ADDRESS OF ISPLINK ROUTINE	07800000
	CALL	(15),(SETMSG,MSGID),VL	LOG IT	07810000
	SPACE 1			07820000
	BR	R9	RETURN	07830000
	SPACE 1			07840000
				07850000
		ERROR ROUTINES		07860000
				07870000
	SPACE 1			07880000
ERROR01	DS	0H	TABLE CREATE ERROR	07890000
	ST	R15,RTNCODE	SAVE RETURN CODE	07900000
	MVC	MSGID,=CL8'EDILO51'	SET MSG ID FAILURE	07910000
	B	ERROR		07920000
	SPACE 1			07930000
				07940000
ERROR02	DS	0H	ALLOCATION FAILURE	07950000
	ST	R15,RTNCODE	SAVE RETURN CODE	07960000
	MVC	REEZCODE,DYNRB+S99ERROR-S99RB	SET REASON CODE	07970000
	MVC	DDERR,TXDD+S99TUPAR-S99TUNIT	SET DDNAME IN MSG	07980000
	MVC	MSGID,=CL8'EDILO52'	SET MSG ID FAILURE	07990000
	B	ERROR		08000000
	SPACE 1			08010000
ERROR03	DS	0H	ALLOCATION FAILURE	08020000
	ST	R15,RTNCODE	SAVE RETURN CODE	08030000

	MVC	REEZCODE,DYNRB+S99ERROR-S99RB SET REASON CODE	08030000
	MVC	DDERR.TXTDD+S99TUPAR-S99TUNIT SET DDNAME IN MSG	08040000
	MVC	MSGID,=CL8'EDIL053' SET MSG ID FAILURE	08050000
	B	ERROR	08060000
	SPACE	1	08070000
ERROR04	DS	0H REBLOCK ERROR	08080000
	ST	R15,RTNCODE SAVE RETURN CODE	08090000
	MVC	MSGID,=CL8'EDIL054' SET MSG ID FAILURE	08100000
	B	ERROR	08110000
	SPACE	1	08120000
ERROR05	DS	0H ATTACH FAILURE	08130000
	ST	R15,RTNCODE SAVE RETURN CODE	08140000
	MVC	MSGID,=CL8'EDIL055' SET MSG ID FAILURE	08150000
	B	ERROR	08160000
	SPACE	1	08170000
ERROR06	DS	0H OPEN FAILURE	08180000
	MVC	MSGID,=CL8'EDIL056' SET MSG ID FAILURE	08190000
	B	ERROR	08200000
	SPACE	1	08210000
ERROR07	DS	0H TBADD FAILURE	08220000
	ST	R15,RTNCODE SAVE RETURN CODE	08230000
	MVC	MSGID,=CL8'EDIL057' SET MSG ID FAILURE	08240000
	B	ERROR	08250000
	SPACE	1	08260000
ERROR08	DS	0H PARSE SEGMENT	08270000
	LA	R12,INPDCB POINT TO INPUTDCB	08280000
	SPACE	1	08290000
	CLOSE	((R12)) CLOSE IT	08300000
	SPACE	1	08310000
	LR	R1,R12 COPY DCB ADDRESS	08320000
	SPACE	1	08330000
	FREEPOOL	(1) FREE QSAM BUFFERS	08340000
	SPACE	1	08350000
	LA	R12,OUTDCB POINT TO OUTPUT DCB	08360000
	SPACE	1	08370000
	CLOSE	((R12)) CLOSE IT	08380000
	SPACE	1	08390000
	LR	R1,R12 COPY DCB ADDRESS	08400000
	SPACE	1	08410000
	FREEPOOL	(1) FREE QSAM BUFFERS	08420000
	SPACE	1	08430000
	MVC	MSGID,=CL8'EDIL058' SET MSG ID FAILURE	08440000
	B	ERROR	08450000
	SPACE	1	08460000
ERROR09	DS	0H EDIT ERROR	08470000
	ST	R15,RTNCODE SAVE RETURN CODE	08480000
	MVC	MSGID,=CL8'EDIL059' SET MSG ID FAILURE	08490000
	B	ERROR	08500000
	SPACE	1	08510000
ERROR10	DS	0H WORK FILE FORMAT ERROR	08520000
	CLOSE	((R12)) CLOSE FILE	08530000
	SPACE	1	08540000
	MVC	MSGID,=CL8'EDIL060' SET MSG ID FAILURE	08550000
	B	ERROR	08560000
	SPACE	1	08570000
ERROR11	DS	0H SEGMENT FILE FORMAT ERROR	08580000
	SPACE	1	08590000
	CLOSE	((R12)) CLOSE FILE	08600000
	SPACE	1	08610000
	MVC	MSGID,=CL8'EDIL061' SET MSG ID FAILURE	08620000
	B	ERROR	08630000
	SPACE	1	08640000
ERROR12	DS	0H SYSTEM ABEND	08650000
	MVC	MSGID,=CL8'EDIL062' SET MSG ID FAILURE	08660000
	B	ERROR	08670000
	SPACE	1	08680000
ERROR	DS	0H EDIT ERROR	08690000
	BAL	R9,LOGIT GO LOG IT	08700000
	BAL	R9,SETMSGX GO DISPLAY MSG	08710000
	TM	FLAG1,INIT ARE WE INITIALIZING?	08720000
	BO	ENDSESS YES- END SESSION	08730000
	B	DISPPRIM NO- DISPLAY PANEL	08740000
	SPACE	1	08750000
			08760000
			08770000
		THE FOLLOWING ROUTINE RETRIEVES THE NEXT LOGICAL RECORD	08780000
		FROM A DASD DATASET.	08790000
			08800000
		INPUTS:	08810000
			08820000
		R5 - RETURN ADDRESS	08830000
			08840000
			08850000
		OUTPUTS:	08860000
			08870000
		R0 - INPUT RECORD LENGTH	08880000
		R1 - INPUT RECORD ADDRESS	08890000
			08900000
	SPACE	2	08910000
READFILE	DS	0H ENTRY POINT IDENTIFIER	08920000
	STM	R14,R1,SAVEREGS SAVE REGISTERS	08930000
	LA	R12,INPDCB	08940000

TM	BEDFLAG1, INEOF+PERMIERR	EOF PREVIOUSLY REACHED?	08950000
BC	NALLOFF, READEOF	YES-	08960000
LA	RO, READEOF	POINT TO EOF EXIT ROUTINE	08970000
STCM	RO, B'0111', DCBEODA	SAVE EODAD ADDR	08980000
LA	RO, READSYN	POINT TO SYNAD EXIT ROUTINE	08990000
STCM	RO, B'0111', DCBSYNA	SAVE SYNAD ADDRESS	09000000
SPACE 1			09010000
GET	INPOCB	RETRIEVE NEXT RECORD	09020000
SPACE 1			09030000
TM	DCBRECFC, DCBRECUC	RECFC U?	09040000
BC	ALLON, RECU	YES-	09050000
TM	DCBRECFC, DC3RECV	RECFC V?	09060000
BC	ALLON, RECV	YES-	09070000
SPACE 1			09080000
*	UNDEFINED OR FIXED LENGTH RECORD FORMAT		09090000
SPACE 1			09100000
RECU	DS OH		09110000
LH	RO, DCBLRECL	LOAD RECORD LENGTH READ	09120000
LTR	RO, RO	UNBLOCKED RECORDS?	09130000
BC	NZERO, READF200	NO-	09140000
LH	RO, DCBBLKSI	RETRIEVE BLOCKSIZE	09150000
B	READF200	RETURN	09160000
SPACE 1			09170000
*	VARIABLE LENGTH RECORD FORMAT		09180000
SPACE 1			09190000
RECV	DS OH		09200000
LH	RO, Q(S, R1)	RETRIEVE VARIABLE RECORD LENGTH	09210000
LA	R1, 4(C, R1)	POINT TO DATA PORTION OF RECORD	09220000
S	RO, =F'4'	ADJUST LENGTH FOR RDW	09230000
B	READF200	RETURN	09240000
READEOF	DS OH		09250000
SLR	RO, RO	CLEAR READ LENGTH	09260000
OI	BEDFLAG1, INEOF	SET EOF ENCOUNTERED	09270000
READCLS	DS OH		09280000
TM	DCBOFLGS, DCBOFOPN	IS DATA SET OPEN?	09290000
BC	ALLOFF, READF200	NO-	09300000
SPACE 1			09310000
CLOSE ((R12))		CLOSE IT	09320000
SPACE 1			09330000
LR	R1, R12	COPY DCB ADDRESS	09340000
SPACE 1			09350000
FREEPOOL (1)		FREE QSAM BUFFERS	09360000
SPACE 1			09370000
SLR	RO, RO	SET LENGTH	09380000
B	READF300		09390000
DS OH			09400000
READSYN	SYNDAF ACSMETH=QSAM	REQUEST FORMATTED MESSAGE	09410000
SPACE 1			09420000
MVC	SYNADTXT, 50(R1)	COPY MESSAGE TEXT	09430000
SPACE 1			09440000
COMMSGS	TEXT=MSG230	NOTIFY OPERATOR	09450000
SPACE 1			09460000
SYNADRLS		RELEASE BUFFERS	09470000
SPACE 1			09480000
OI	BEDFLAG1, PERMIERR	SET PERMANENT INPUT ERROR	09490000
B	READCLS	GO CLOSE IF NECESSARY	09500000
SPACE 1			09510000
*			09520000
*	NORMAL RETURN		09530000
*			09540000
SPACE 1			09550000
READF200	DS OH		09560000
SI	R1, MOVESTAT+8	SAVE FOR SEGMENT ROUTINE	09570000
ST	RO, MOVESTAT+12	SAVE	09580000
READF300	DS OH		09590000
LM	R14, R1, SAVEREGS	RESTORE REGISTERS	09600000
BR	R5		09610000
SPACE 2			09620000
*			09630000
*	FIND SEGMENT ROUTINE		09640000
*			09650000
*	SUBROUTINE TO PROCESS THE HEADER RECORD AND PICK		09660000
*	OUT THE DATA ELEMENT AND SEGMENT SEPERATORS TO		09670000
*	DYNAMICALLY MAKE TO TRANSLATE TABLES.		09680000
*			09690000
*	INPUT - R9 - RETURN ADDRESS		09700000
*	MOVESTAT+ 0 - ADDRESS OF SEGMENT BUILD AREA		09710000
*	MOVESTAT+ 4 - LENGTH OF SEGMENT BUILD AREA		09720000
*	MOVESTAT+ 8 - ADDRESS OF ANSI/UNJEDI RECORD		09730000
*	MOVESTAT+12 - LENGTH OF ANSI/UNJEDI RECORD		09740000
*			09750000
*			09760000
*			09770000
SPACE 3			09780000
FINDSGMT	DS OH		09790000
XC	MOVESTAT(8), MOVESTAT	RESET STATS OF BUILD AREA	09800000
LM	R14, R15, MOVESTAT+8	GET WHERE LEFT OFF IN RECORD	09810000
LTR	R15, R15	ANY BYTES LEFT TO PROCESS?	09820000
BNP	FNDHSTRT	NO-	09830000
BCTR	R15, 0	YES- GET EXECUTABLE LENGTH	09840000
LA	R5, TABLE01	GET TABLE ADDRESS	09850000
EX	R15, ENDALPHA	FIND SEGMENT ID	09860000

BZ	FNDS0080	NOT FOUND	09860000
LA	R15,1(R15,R14)	POINT PAST LAST BYTE OF RECORD	09870000
LR	R14,R1	COPY ADDRESS OF SEGMENT ID	09880000
SR	R15,R14	GET LENGTH LEFT	09890000
FNDS0070	DS	OH	09900000
	STM	R14,R15,MOVESTAT+8	RESET STATS
	B	FNDHSTRT	CONTINUE
FNDS0080	DS	OH	09910000
	LA	R15,0	SET ZERO BYTES LEFT OF THIS RECORD
	B	FNDS0070	CONTINUE
FNDALPHA	TRT	0(0,R14),0(R5)	09920000
FNDHSTRT	DS	OH	09930000
	ICM	R0,B'1111',MOVESTAT+12	FINISHED READING RECORD?
	BNZ	FNDS0090	NO-
	SPACE	1	10000000
	BAL	R5,READFILE	RETRIEVE NEXT INPUT RECORD
	TM	BEDFLAG1,INEOF	EOF REACHED?
	BO	FNDH1300	YES-
	SPACE	1	10010000
	LM	R14,R15,MOVESTAT+8	GET RECORD ADDRESS/LENGTH
FNDS0090	DS	OH	10020000
	ICM	R0,B'1111',MOVESTAT+4	FINISHED BUILDING RECORD?
	BNZ	FNDS0100	NO-
	L	R1,BUFFER	NO- GET ADDRESS OF BUILD AREA
	ST	R1,MOVESTAT	SAVE IT
	LA	R1,L'ERRBUFF	GET LENGTH OF BUILD AREA
	ST	R1,MOVESTAT+4	SAVE IT
FNDS0100	DS	OH	10100000
	CLC	SEP,0(R14)	NO- SEPARATOR?
	BE	FNDH0900	YES-
FNDS0500	DS	OH	10110000
	LA	R14,1(R14)	NO- POINT TO NEXT BYTE
	BCT	R15,FNDS0100	PROCESS REST OF RECORD
FNDS0600	DS	OH	10120000
	S	R1,MOVESTAT+12	UPDATE DISPLACEMENT OF SEPARATOR
	STH	R1,ELMTCTR	SAVE IT
	LM	R14,R1,MOVESTAT	GET MOVE STATS
	CR	R15,R1	RECV LGTH > SEND LGTH?
	BNH	FNDHERR	NO- ERROR
	LR	R15,R1	SET RECV LGTH TO SEND LGTH
	MVCL	R14,R0	MOVE TO RECORD BUILD AREA
	L	R15,MOVESTAT+4	GET MAX LGTH OF BUILD AREA
	S	R15,MOVESTAT+12	MINUS ACTUAL BYTES MOVE
	STM	R14,R1,MOVESTAT	SAVE MOVE STAT
	B	FNDHSTRT	GO READ ANOTHER RECORD
FNDH0900	DS	OH	10200000
	S	R14,MOVESTAT+8	CALC LGTH OF REST OF SEGMENT
	LA	R1,1(R14)	ADD ONE FOR SEGMENT
	B	FNDH1000	GO MOVE TO BUILD AREA
FNDH1000	DS	OH	10210000
	LM	R14,R0,MOVESTAT	SET UP FOR MOVE
	CR	R15,R1	RECV LGTH > SEND LGTH?
	BH	FNDH1100	YES-
	LR	R1,R15	NO- SET SEND LGTH TO RECV LGTH
	B	FNDH1200	
FNDH1100	DS	OH	10220000
	LR	R15,R1	SET RECV LGTH TO SEND LGTH
FNDH1200	DS	OH	10230000
	LTR	R15,R15	LENGTH POSITIVE?
	BNP	FNDH1400	NO-
	CH	R15,=H'256'	YES- TOO BIG?
	BH	FNDH1400	YES-
	MVCL	R14,R0	MOVE TO RECORD BUILD AREA
	LR	R15,R0	GET ADDR PAST SEPERATOR
	S	R15,MOVESTAT+8	CALC BYTES MOVED
	L	R1,MOVESTAT+12	GET TOTAL BYTES IN RECORD
	SR	R1,R15	CALC RESIDUAL BYTE COUNT
	STM	R0,R1,MOVESTAT+8	SAVE FOR LATER
	L	R15,BUFFER	GET BEGINNING OF RECORD
	SR	R14,R15	CALC LENGTH OF RECORD
	LA	R14,4(R14)	ADD LENGTH OF RDW
	L	R15,BUFFERDW	GET ADDRESS OF RDW
	STCM	R14,B'0011',0(R15)	SET RDW
	B	FNDH0900	RETURN
FNDH1300	DS	OH	10240000
	CLC	MOVESTAT+4(4),BEDZERO	STILL BUILDING A SEGMENT?
	BE	FNDHEOF	NO-
	B	FNDHERR	YES- END OF SEGMENT MISSING
FNDH1400	DS	OH	10250000
	STM	R14,R1,MOVESTAT	SAVE REGISTERS
	ABEND	8,DUMP	
	SPACE	1	10260000
*	+0	ERROR RETURN	10270000
*			10280000
	SPACE	1	10290000
FNDHERR	DS	OH	10300000
	B	0(R9)	
	SPACE	1	10310000
*			10320000
*	+4	EOF RETURN	10330000
*			10340000
	SPACE	1	10350000
FNDHEOF	DS	OH	10360000
	B	4(R9)	

	SPACE 1		10810000
*			10820000
*	+8 NORMAL RETURN		10830000
*			10840000
	SPACE 1		10850000
FNDHNORM	DS 0H		10860000
	B 8(R9)		10870000
	SPACE 1		10880000
TABLEQ1	SCNTBL CHARSET=ALPHA, FUNC=LOCATE		10890000
	SPACE 1		10900000
TBABEND	DS 0H		10910000
	PUSH-- USING		10920000
	DROP		10930000
	USING X,R15		10940000
	CH R0,=H'12'	SDWA PRESENT?	10950000
	BNE AAABEND1	YES-	10960000
*	RETURN TO RTM, ATTEMPTING RECOVERY:		10970000
	SPACE 1		10980000
	LA R0,AAABEND2	POINT TO REINSTATEMENT ROUTINE	10990000
	LA R15,4	INDICATE TASK IS TO BE REINSTATED	11000000
	BR R14	RETURN TO RTM	11010000
	SPACE 1		11020000
AAABEND1	DS 0H		11030000
	STM R14,R12,12(R13)	SAVE REGS	11040000
	LR R10,R15	SET BASE	11050000
	USING TBABEND,R10		11060000
	DROP R15		11070000
	LR R4,R1	SDWA ADR	11080000
	USING SDWA,R4		11090000
	L R2,SDWAPARM	GET BASE REGISTER	11100000
	USING EDITSBED,R2	GET ADDRESSABILITY	11110000
	LA R3,2048(R2)	SET 2ND BASE REG	11120000
	LA R3,2048(R3)		11130000
	USING EDITSBED+4096,R3		11140000
	ICM R1,B'0111',SDWACMPC	GET COMPLETION CODE	11150000
	DROP R4		11160000
	SRL R1,12		11170000
	N R1,=X'00000FFF'		11180000
	ST R1,RTNCODE	SAVE IT	11190000
	SPACE 1		11200000
	SETRP REGS=(14,12),		11210000
	RC=4,RETADDR=AAABEND2,FRESWA=YES,WKAREA=(4)		11220000
	SPACE 1		11230000
	POP USING		11240000
	SPACE 2		11250000
AAABEND2	DS 0H		11260000
	LR R10,R1	SET BASE REGISTER	11270000
	LA R11,2048(R10)	SET 2ND BASE REG	11280000
	LA R11,2048(R11)		11290000
	L R2,=A(ERROR12)	POINT TO RESTART ADDRESS	11300000
	BR R2	GO TO IT	11310000
	SPACE 1		11320000
	LTORG		11330000
	EJECT		11340000
*			11350000
*	MISC DATA AREA		11360000
*			11370000
	SPACE 1		11380000
ZUSER	DC CL8'		11390000
XLATOR	DC A(0)		11400000
SAVEAREA	DC 18F'0'		11410000
SAVEREGS	DC 18F'0'		11420000
DBLWORD	DC D'0'		11430000
BUFFROW	DC A(ERRROW)	POINT TO ROW	11440000
BUFFER	DC A(ERRBUFF)	POINTER TO ERROR BUFFER	11450000
MSGID	DC CL8'	MESSAGE ID	11460000
DCBNAMES	DC AL2(L'IDCB+L'ODCB+L'EDCB)	LENGTH OF DDNAMES	11470000
IDCB	DC CL8'	INPUT DCB FOR REBLOCK	11480000
ODCB	DC CL8'	OUTPUT DCB FOR REBLOCK	11490000
EDCB	DC CL8'REBLKERR'	SYSPRINT DCB FOR REBLOCK	11500000
ISPLADDR	DC A(0)		11510000
TEMPDSN	DC C'..'		11520000
IDSN	DC CL44'		11530000
MOVESTAT	DC 4F'0'		11540000
BEDZERO	DC D'0'	CONSTANT ZEROS	11550000
BEDBLANK	DC CL8'	CONSTANT BLANK	11560000
ELMTCTR	DC H'0'		11570000
BEDFLAG1	DC X'00'		11580000
INEOF	EQU X'80'	END OF FILE	11590000
PERMIERR	EQU X'40'	ERROR READING INPUT FILE	11600000
SEP	DC X'01'	SEGMENT SEPARATOR	11610000
FLAG1	DC X'00'	MISC FLAG	11620000
INIT	EQU X'80'	INITIALIZING	11630000
	SPACE 1		11640000
*			11650000
*	DYNAMIC ALLOCATION CONTROL BLOCKS		11660000
*			11670000
	SPACE 1		11680000
DYNRBP	DC 0F'0',X'80',AL3(DYNRB)		11690000
DYNRB	DC XL(S99RBEND-S99RB)'00'		11700000
ORG	DYNRB+S99RBLN-S99RB		11710000
DC	AL1(S99RBEND-S99RB)		11720000

ORG	DYNRB+S99VERB-S99RB	11730000
DC	AL1(S99VRBAL)	11740000
ORG	DYNRB+S99FLAG1-S99RB	11750000
DC	AL1(S99NOCNV)	11760000
ORG		11770000
SOALLO	DC A(TXTDD),AL1(128),AL3(TXTS0)	11780000
DSCONCLS	DC AL1(128),AL3(TXTCONC)	11790000
DSALLOCS	DC A(TXTDD,TXTDSN),AL1(128),AL3(TXTSHR)	11800000
DSALLOCO	DC A(TXTDD,TXTDSN),AL1(128),AL3(TXTOLD)	11810000
DSUNALOC	DC AL1(128),AL3(TXTDD)	11820000
DSUNCONC	DC AL1(128),AL3(TXTDDU)	11830000
DSALLOCN	DC A(TXTDD)	11840000
	DC A(TXTDSN)	11850000
	DC A(TXTNEW)	11860000
	DC A(TXTNDISP)	11870000
	DC A(TXTCDISP)	11880000
	DC A(TXTUNITX)	11890000
	DC A(TXTTRK)	11900000
	DC A(TXTPRIME)	11910000
	DC A(TXTSECND)	11920000
	DC A(TXTRECFM)	11930000
	DC A(TXTLRECL)	11940000
	DC AL1(128),AL3(TXTBLKSZ)	11950000
	DC AL2(DCCDDNAM,2,8),CL8',AL2(8)	11960000
TXTCONC	DC CL8'	11970000
TXTCONCX	DC	11980000
TXTTRK	DC AL2(DALTRK,0)	11990000
TXTNEW	DC AL2(DALSTATS,1,1),X'04'	12000000
TXTNDISP	DC AL2(DALNDISP,1,1),X'02'	12010000
TXTCDISP	DC AL2(DALCDISP,1,1),X'04'	12020000
TXTRECFM	DC AL2(DALRECFM,1,1),X'40'	12030000
TXTLRECL	DC AL2(DALLRECL,1,2),X'0202'	12040000
TXTBLKSZ	DC AL2(DALBLKSZ,1,2),X'3C40'	12050000
TXTPRIME	DC AL2(DALPRIME,1,3),X'000096'	12060000
TXTSECND	DC AL2(DALSECND,1,3),X'000000'	12070000
TXTUNITX	DC AL2(DALUNIT,1,5),CL5'SPACE'	12080000
TXTOLD	DC AL2(DALSTATS,1,1),X'01'	12090000
TXTDD	DC AL2(DALDDNAM,1,8),CL8'	12100000
TXTDDU	DC AL2(DOCCDDNAM,1,8),CL8'	12110000
TXTDSN	DC AL2(DALDSNAM,1,44),CL44'	12120000
TXTSQ	DC AL2(DALYSOU,1,1),C'W'	12130000
TXTSHR	DC AL2(DALSTATS,1,1),X'08'	12140000
	SPACE 1	12150000
		12160000
	SYSOUT DDNAME LIST	12170000
		12180000
	SPACE 1	12190000
SOLIST	DC CL8'MONITOR'	12200000
	DC CL8'MYOUT'	12210000
	DC CL8'REPORT'	12220000
	DC CL8'SYSOUT'	12230000
	DC CL8'MPT'	12240000
	DC CL8'SBG'	12250000
	DC CL8'EEO'	12260000
	DC CL8'JSP'	12270000
	DC CL8'REBLKERR'	12280000
	DC CL8'	12290000
	SPACE 1	12300000
		12310000
	DDNAME-DSNAME LIST FOR DISP=SHR	12320000
		12330000
	SPACE 1	12340000
DSLST	DC CL8'ANSI'	12350000
DSNAT	DC CL44'	12360000
	DC CL8'ANSIP'	12370000
DSNAP	DC CL44'	12380000
	DC CL8'APPLOUT'	12390000
DSNXP	DC CL44'	12400000
	DC CL8'APPLOUTX'	12410000
DSNXT	DC CL44'	12420000
	DC CL8'CNT'	12430000
DSNCT	DC CL44'	12440000
	DC CL8'CHTP'	12450000
DSNCP	DC CL44'	12460000
	DC CL8'IDS'	12470000
DSNIT	DC CL44'	12480000
	DC CL8'IDSP'	12490000
DSNIP	DC CL44'	12500000
	DC CL8'COND'	12510000
DSNOT	DC CL44'	12520000
	DC CL8'CONDX'	12530000
DSNOP	DC CL44'	12540000
	DC CL8'VSAM',CL44'VAAEX,EDIS.D.TEST.RECOVERY'	12550000
	DC CL8'	12560000
	SPACE 1	12570000
		12580000
	DDNAME-ALLOD LIST FOR DISP=SHR	12590000
		12600000
	SPACE 1	12610000
DSLST	DC CL8'SONLG',X'90',X'0050',X'1810',X'000005'	12620000
	DC CL8'	12630000
	SPACE 1	12640000

* DDNAME-ALLOC LIST FOR DISP=OLD		* 12650000
* SPACE 1		* 12660000
DSLISTO	DC CL8'FAOUT',X'50',X'0800',X'5004',X'000032'	12670000
	DC CL8'OUTPUT',X'50',X'0800',X'5004',X'000064'	12680000
	DC CL8'TESTBED2',X'50',X'0C37',X'618C',X'000005'	12690000
	DC CL8'TESTBED',X'50',X'0800',X'5004',X'000001'	12700000
	DC CL8'REJECT',X'50',X'0804',X'5028',X'0000028'	12710000
	DC CL8'RECOV',X'50',X'0804',X'5028',X'0000028'	12720000
	DC CL8'STORE',X'90',X'0050',X'1810',X'000010'	12730000
	DC CL8'	12740000
	SPACE 1	12750000
* DEFINITION OF PROGRAM STORAGE FOR PANEL VARIABLES		* 12760000
* SPACE 1		* 12770000
DSH	DC CL44'	12780000
DSNH	DC CL44'	12790000
DSNS	DC CL44'	12800000
DSNL	DC CL44'	12810000
STD	DC CL8'	12820000
RLS	DC CL5'	12830000
VERS	DC CL12'	12840000
AGCY	DC CL2'	12850000
REAS	DC CL71'	12860000
LASTSEG	DC CL6'	12870000
NUMB	DC CL6'	12880000
TRANDATA	EQU STD,X-STD,C'C'	12890000
	DS OF	12900000
RTNCODE	DC CL4'	12910000
REEZCODE	DC CL2'	12920000
DDERR	DC CL8'	12930000
	SPACE 1	12940000
* DEFINITION OF ISPF SERVICE REQUESTS		* 12950000
* SPACE 1		* 12960000
DISPLAY	DC CL8'DISPLAY'	12970000
EDIT	DC CL8'EDIT'	13010000
PRIMARY	DC CL8'EDITB'	13020000
PANEL2	DC CL8'EDITB1'	13030000
PANEL3	DC CL8'EDITB2'	13040000
CONTROL	DC C'CONTROL'	13050000
SELECT	DC C'SELECT'	13060000
ERRORS	DC C'ERRORS'	13070000
RETURN	DC C'RETURN'	13080000
VDEFINE	DC CL8'VDEFINE'	13090000
VGET	DC CL8'VGET'	13100000
VPUT	DC CL8'VPUT'	13110000
PROFILE	DC CL8'PROFILE'	13120000
SHARED	DC CL8'SHARED'	13130000
CHAR	DC CL8'CHAR'	13140000
HEX	DC CL8'HEX'	13150000
TBCREATE	DC CL8'TBCREATE'	13160000
TBDISPL	DC CL8'TBDISPL'	13170000
TBADD	DC CL8'TBADD'	13180000
TBTOP	DC CL8'TBTOP'	13190000
TBSARG	DC CL8'TBSARG'	13200000
TBCLOSE	DC CL8'TBCLOSE'	13210000
LOG	DC CL8'LOG'	13220000
SETMSG	DC CL8'SETMSG'	13230000
VARIABLE	DC CL8'VARIABLE'	13240000
NOWRITE	DC CL8'NOWRITE'	13250000
VARLIST	DC C'(TBNUMB TBREAS)'	13260000
SAVLIST	DC C'(TBDSN TBDSNH TBDSNS TBDSNAT TBDSNAP TBDSNCT TBDSNCP TBDSNIT TBDSNIP TBDSNXT TBDSNXP TBDSNOT TBDSNOP TBDSNL)'	13270000
USERLIST	DC C'(ZUSER)'	13280000
	SPACE 1	13290000
* DEFINITION OF LENGTH OF PANEL VARIABLES		* 13300000
* SPACE 1		* 13310000
LENGTH2	DC F'2'	13320000
LENGTH4	DC F'4'	13330000
LENGTH5	DC F'5'	13340000
LENGTH6	DC F'6'	13350000
LENGTH8	DC F'8'	13360000
LENGTH11	DC F'11'	13370000
LENGTH12	DC F'12'	13380000
LENGTH44	DC F'44'	13390000
LENGTH71	DC F'71'	13400000
	SPACE 1	13410000
* DEFINITION OF PANEL VARIABLES		* 13420000
* SPACE 1		* 13430000
SELCMD	DC C'CMD(ZEDITB)'	13440000
ZUSERLIT	DC C'(ZUSER)'	13450000
DSNLIT	DC C'(TBDSN)'	13460000
DSNHLIT	DC C'(TBDSNH)'	13470000
DSNSLIT	DC C'(TBDSNS)'	13480000
DSNLLIT	DC C'(TBDSNL)'	13490000
DSNALLIT	DC C'(TBDSNAT)'	13500000

DSNALITP	DC	C'(TBDSNAP)'	13580000
DSNCLITT	DC	C'(TBDSNCT)'	13590000
DSNCLITP	DC	C'(TBDSNCP)'	13600000
DSNILITT	DC	C'(TBDSNIT)'	13610000
DSNILITP	DC	C'(TBDSNIP)'	13620000
DSNXLITT	DC	C'(TBDSNXT)'	13630000
DSNXLITP	DC	C'(TBDSNXP)'	13640000
DSNOLITT	DC	C'(TBDSNOT)'	13650000
DSNOLITP	DC	C'(TBDSNOP)'	13660000
STDLIT	DC	C'(TBSTD)'	13670000
RLSLIT	DC	C'(TBRLS)'	13680000
VERSLIT	DC	C'(TBVER)'	13690000
AGCYLIT	DC	C'(TA)'	13700000
REASLIT	DC	C'(TBREAS)'	13710000
NUMBLIT	DC	C'(TBNUMB)'	13720000
LASTLIT	DC	C'(TLASTS)'	13730000
RTC	DC	C'(RTC)'	13740000
REEZ	DC	C'(REEZ)'	13750000
DD	DC	C'(DD)'	13760000
	SPACE	1	13770000
-----*			13780000
*	DCB'S		* 13790000
-----*			13800000
	SPACE	1	13810000
ERRDCB	DCB	DDNAME=TESTBED2, DSORG=PS, MACRF=GM	13820000
	SPACE	1	13830000
INPDCB	DCB	DDNAME=INPUT, DSORG=PS, MACRF=GL	13840000
	SPACE	1	13850000
OUTDCB	DCB	DDNAME=SGMTFILE, DSORG=PS, MACRF=PM	13860000
	SPACE	1	13870000
STOREDCB	DCB	DDNAME=STORE, DSORG=PS, MACRF=PM	13880000
	SPACE	1	13890000
LOGDCB	DCB	DDNAME=LOG, DSORG=PS, MACRF=PM	13900000
	SPACE	1	13910000
OUTDCBX	DCB	DDNAME=SGMTFILE, DSORG=PS, MACRF=GL	13920000
	SPACE	1	13930000
	LTORG		13940000
	SPACE	1	13950000
ERRRDW	DC	AL2(*-*,0)	13960000
ERRBUFF	DS	XL3123	13970000
BDMODNUM	DC	CL8'MD00049'	99999996
	END		99999999

What is claimed is:

1. A method for interactively translating electronic data interchange files, comprising the steps of:

- (a) generating a plurality of displays for interactively controlling the translation of an electronic data interchange file;
- (b) translating said electronic data interchange file until a translation error exists;
- (c) displaying said translation error on at least one of said plurality of displays so that said translation error may be corrected interactively;
- (d) correcting said displayed translation error in response to data entered on said at least one of said plurality of displays; and
- (e) repeating steps (a) through (d) until no translation error exists.

2. The method of claim 1, wherein said electronic data interchange file comprises transaction data to be communicated from a sending computer to a receiving computer and said translating step occurs after communicating said electronic data interchange file to said receiving computer.

3. The method of claim 2, wherein said correcting step further comprises the steps of:

- forming a segment file for containing a portion of said electronic data interchange file where said portion includes said translation error;
- placing said portion of said electronic data interchange file into said segment file;
- displaying said portion on said at least one of said plurality of displays for correcting said translation error; and
- forming a working file comprising all correctly translated portions of said electronic data interchange file.

4. The method of claim 2, wherein said displaying and correcting steps occur interactively without the need to retranslate all previously translated portions of said electronic data interchange file.

5. The method of claim 1, further comprising the step of logging each of said translation error occurring during the translation of said electronic data interchange file.

6. The method of claim 1, further comprising the step of forming a working file of all correctly translated portions of said electronic data interchange file.

7. A programmable machine system for interactively translating business transaction data between a plurality of different dictionary-structured transaction formats, said machine system including a plurality of system components, said machine system comprising:

output circuitry for generating a plurality of visible signals corresponding to the status of translation of said business transaction data from one format to another predetermined format;

translation circuitry for translating said business transaction data into said predetermined format; error detection and reporting circuitry for detecting the existence of a translation error and communicating said translation error to said output circuitry;

editing circuitry for interactively receiving corrections to said business transaction data and for modifying said business transaction data in response to said corrections generating corrected business transaction data; and

said translation circuitry translating said corrected business transaction data.

* * * * *